



SEQUENCE LISTING

RECEIVED  
DEC 12 2002  
TECH CENTER 1600/2900

<110> Strominger, Jack L.  
Fridkis-Hareli, Masha

<120> THERAPEUTIC PEPTIDES FOR DEMYELINATING CONDITIONS

<130> 24655-017

<140> 10/056,583

<141> 2002-01-24

<150> 60/263,569

<151> 2001-01-24

<160> 99

<170> PatentIn Ver. 2.1

<210> 1

<211> 15

<212> PRT

<213> Homo sapiens

<220>

<223> Immunodominant peptide of MBP, recognized by  
HLA-DR2 haplotype

<221> DOMAIN

<222> 85 - 99

<400> 1

Glu Asn Pro Val Val His Phe Phe Lys Asn Ile Val Thr Pro Arg  
1 5 10 15

<210> 2

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 2

Ala Lys Lys Glu Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 3

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 3  
Ala Lys Glu Glu Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 4  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 4  
Ala Lys Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 5  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 5  
Ala Glu Lys Glu Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 6  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 6  
Glu Lys Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 7  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 7  
Lys Glu Glu Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 8  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 8  
Ala Glu Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 9  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 9  
Glu Lys Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 10  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 10  
Glu Glu Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 11  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 11  
Ala Lys Glu Ala Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 12  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 12

Glu Lys Glu Ala Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 13

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 13

Lys Glu Lys Ala Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 14

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 14

Ala Lys Ala Glu Ala Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 15

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 15

Ala Glu Lys Ala Ala Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 16

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 16

Ala Lys Lys Ala Ala Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 17

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 17

Ala Lys Ala Ala Ala Ala Glu Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 18

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 18

Ala Glu Lys Ala Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 19

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 19

Ala Glu Glu Ala Tyr Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 20

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 20

Ala Glu Lys Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 21

<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 21  
Ala Ala Glu Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 22  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 22  
Ala Glu Glu Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 23  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 23  
Ala Lys Glu Ala Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 24  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 24  
Ala Ala Lys Glu Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 25  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 25

Ala Lys Ala Glu Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 26

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 26

Ala Glu Ala Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 27

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 27

Ala Ala Glu Glu Tyr Lys Ala Tyr Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 28

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 28

Ala Lys Glu Glu Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 29

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 29

Ala Lys Glu Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 30  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 30  
Ala Lys Ala Ala Tyr Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 31  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 31  
Ala Ala Lys Ala Tyr Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 32  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 32  
Ala Glu Ala Glu Tyr Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 33  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 33  
Ala Glu Ala Lys Tyr Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 34  
<211> 15  
<212> PRT



<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 34

Ala Ala Lys Lys Tyr Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 35

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 35

Ala Ala Glu Lys Tyr Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 36

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 36

Ala Ala Ala Glu Tyr Lys Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 37

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 37

Glu Ala Glu Lys Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 38

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 38  
Glu Lys Ala Glu Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 39  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 39  
Glu Lys Glu Ala Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 40  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 40  
Glu Ala Lys Glu Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 41  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 41  
Glu Ala Lys Ala Tyr Ala Ala Tyr Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 42  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 42  
Ala Ala Ala Glu Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 43  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 43  
Ala Ala Glu Lys Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 44  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 44  
Ala Lys Glu Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 45  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 45  
Ala Glu Ala Lys Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 46  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 46  
Ala Glu Glu Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 47  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 47

Ala Lys Ala Glu Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 48

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 48

Ala Lys Glu Glu Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 49

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 49

Ala Glu Glu Lys Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 50

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 50

Ala Ala Lys Glu Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 51

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 51

Glu Ala Ala Lys Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala

1	5	10	15
---	---	----	----

<210> 52  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> The peptide was designed and synthesized.  
  
 <400> 52  
 Glu Ala Lys Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
 1                      5                      10                      15

<210> 53  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> The peptide was designed and synthesized.  
  
 <400> 53  
 Glu Lys Ala Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
 1                      5                      10                      15

<210> 54  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> The peptide was designed and synthesized.  
  
 <400> 54  
 Glu Ala Glu Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
 1                      5                      10                      15

<210> 55  
 <211> 15  
 <212> PRT  
 <213> Artificial Sequence  
  
 <220>  
 <223> The peptide was designed and synthesized.  
  
 <400> 55  
 Glu Ala Ala Glu Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
 1                      5                      10                      15

<210> 56  
 <211> 15

<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 56  
Glu Glu Ala Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 57  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 57  
Glu Glu Ala Lys Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 58  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 58  
Glu Lys Glu Ala Tyr Ala Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 59  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 59  
Ala Ala Lys Ala Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 60  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 60

Ala Ala Glu Ala Tyr Lys Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 61

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 61

Glu Ala Lys Ala Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 62

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 62

Glu Ala Glu Ala Tyr Lys Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 63

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 63

Glu Ala Ala Ala Tyr Lys Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 64

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 64

Glu Ala Ala Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 65  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 65  
Glu Lys Ala Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 66  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 66  
Glu Ala Lys Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 67  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 67  
Ala Lys Lys Glu Tyr Ala Glu Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 68  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 68  
Ala Ala Glu Lys Tyr Ala Glu Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 69  
<211> 15  
<212> PRT  
<213> Artificial Sequence



<220>

<223> The peptide was designed and synthesized.

<400> 69

Glu	Asn	Pro	Val	Val	His	Tyr	Phe	Lys	Asn	Ile	Val	Thr	Pro	Arg
1				5					10					15

<210> 70

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 70

Glu	Glu	Lys	Ala	Tyr	Ala	Tyr	Ala	Lys	Ala	Ala	Ala	Ala	Ala	Ala
1				5					10					15

<210> 71

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 71

Glu	Glu	Ala	Ala	Tyr	Lys	Ala	Ala	Lys	Ala	Ala	Ala	Ala	Ala	Ala
1				5					10					15

<210> 72

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 72

Glu	Glu	Lys	Ala	Tyr	Ala	Ala	Ala	Lys	Ala	Ala	Ala	Ala	Ala	Ala
1				5					10					15

<210> 73

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 73

Glu Glu Lys Ala Tyr Ala Ala Ala Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 74

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 74

Glu Glu Ala Ala Tyr Lys Ala Ala Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 75

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 75

Glu Glu Ala Ala Tyr Ala Tyr Lys Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 76

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 76

Glu Ala Lys Ala Tyr Glu Tyr Ala Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 77

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 77

Ala Ala Glu Lys Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 78

<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 78  
Ala Ala Ala Lys Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 79  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 79  
Ala Ala Ala Lys Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 80  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 80  
Ala Ala Glu Ala Tyr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 81  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 81  
Ala Ala Glu Ala Val Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 82  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 82

Ala Ala Glu Lys Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 83

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 83

Glu Ala Pro Ala Tyr Lys Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 84

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 84

Glu Ala Pro Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 85

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 85

Glu Lys Pro Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 86

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 86

Glu Ala Pro Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 87  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 87  
Ala Lys Pro Glu Tyr Ala Glu Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 88  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 88  
Ala Pro Glu Lys Ala Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala  
1 5 10 15  
Ala

<210> 89  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 89  
Ala Pro Glu Lys Ala Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala  
1 5 10 15  
Ala Pro Ala

<210> 90  
<211> 17  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 90  
Glu Lys Ala Lys Tyr Glu Ala Tyr Lys Ala Ala Ala Ala Ala Pro  
1 5 10 15  
Ala

<210> 91  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 91  
Glu Lys Pro Lys Phe Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 92  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 92  
Glu Lys Ala Lys Glu Glu Ala Tyr Lys Ala Ala Ala Ala Ala Ala  
1 5 10 15

<210> 93  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 93  
Glu Lys Pro Lys Val Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 94  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> The peptide was designed and synthesized.

<400> 94  
Glu Lys Pro Lys Glu Glu Ala Phe Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

<210> 95  
<211> 15  
<212> PRT  
<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 95

Glu Lys Ala Lys Phe Glu Ala Phe Lys Ala Ala Ala Ala Ala  
1 5 10 15

<210> 96

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 96

Ala Pro Glu Lys Ala Lys Phe Glu Ala Phe Lys Ala Ala Ala Pro  
1 5 10 15  
Ala

<210> 97

<211> 17

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 97

Ala Pro Glu Lys Ala Lys Phe Glu Ala Tyr Lys Ala Ala Ala Pro  
1 5 10 15  
Ala

<210> 98

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

<400> 98

Glu Ala Pro Lys Phe Glu Ala Tyr Lys Ala Ala Ala Pro Ala  
1 5 10 15

<210> 99

<211> 15

<212> PRT

<213> Artificial Sequence

<220>

<223> The peptide was designed and synthesized.

A1  
cont.

<400> 99

Glu Ala Pro Lys Val Glu Ala Tyr Lys Ala Ala Ala Ala Pro Ala  
1 5 10 15

---